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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	:	Sarkar et al.)
App. No.	:	10/053,241)
Filed	:	January 16, 2002)
For	:	HOLLOW INORGANIC MEMBRANES PRODUCED BY METAL OR COMPOSITE ELECTRODEPOSITION)
Examiner	:	Unknown)

ESTABLISHMENT OF RIGHT OF ASSIGNEE TO TAKE ACTION
AND
REVOCAION AND POWER OF ATTORNEY

United States Patent and Trademark Office
P.O. Box 2327
Arlington, VA 22202

Dear Sir:

The undersigned is empowered to act on behalf of the assignee below, Alberta Research Council, Inc. (the "Assignee"). The Assignment of the above-captioned application from the Partho Sarkar to the Assignee can be found at Reel 012987, Frame 0184. This Assignment, together with the Assignment from Hongsang Rho to the Assignee attached hereto, represents the entire chain of title of this invention from the inventors to the Assignee.

I declare that all statements made herein are true, and that all statements made upon information and belief are believed to be true, and further, that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001, and that willful, false statements may jeopardize the validity of the application, or any patent issuing thereon.

The undersigned hereby revokes any previous powers of attorney in the subject application, and hereby appoints the registrants of Knobbe, Martens, Olson & Bear, LLP, 2040

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Main Street, Fourteenth Floor, Irvine, California 92614, Telephone (949) 760-0404, Customer No. 20,995, as its attorneys with full power of substitution and revocation to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith. This appointment is to be to the exclusion of the inventor(s) and his attorney(s) in accordance with the provisions of 37 C.F.R. § 3.71.

Please use Customer No. 20,995 for all communications.

ALBERTA RESEARCH COUNCIL, INC.

Dated: June 9, 2003

By: Keith Salmon

Printed Name: Keith Salmon

Title: Chief Financial Officer

Address: 250 Karl Clark Road
Edmonton, Alberta
CANADA T5N 1E4

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ASSIGNMENT OF APPLICATION

WHEREAS, I: **Hongsang Rho**, a Korean citizen, residing at 11004 - 11th Avenue, Edmonton, Alberta, Canada T6J 6M8, have invented certain new and useful improvements in: **HOLLOW CERAMIC MEMBRANES PRODUCED BY METAL OR COMPOSITE ELECTRODEPOSITION** for which an application for Letters Patent has been made in the United States under Serial No.10/053,241, on January 16, 2002;

WHEREAS, **ALBERTA RESEARCH COUNCIL INC.** (hereinafter "ASSIGNEE"), a Canadian corporation, with its principal place of business at 250 Karl Clark Road, Edmonton, Alberta, Canada T6N 1E4, desires to acquire the entire right, title and interest in and to said invention and in and to the said improvements and the said Application;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I, the said inventor, do hereby acknowledge that I have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application and all provisional applications relating thereto, and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all extensions and reissues thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and I hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as foresaid, to issue all Letters Patent for said improvements and to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant and agree that I will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to me respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible

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to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 3rd day of June, 2003.

Witness:

Inventor:

Leonard M. Nundy
Leonard Mundy

Hongsang Rho
Hongsang Rho